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L12

1 67776-06-1/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND SET COMMAND COMPLETED

=> D L12 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y THE ESTIMATED COST FOR THIS REQUEST IS 5.63 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y) / N: y

L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN67776-06-1 REGISTRY

Valine, N-acetyl-3-(nitrosothio)- (9CI) (CA INDEX NAME) CN

OTHER CA INDEX NAMES:

DL-Valine, N-acetyl-3-(nitrosothio)-

OTHER NAMES:

N-Acetyl-S-nitroso-DL-penicillamine

CN N-Acetyl-S-nitrosopenicillamine

CN S-Nitroso-N-acetyl-DL-penicillamine

CN S-Nitrosoacetylpenicillamine

CN SNAP

CN SNAP (amino acid)

DR 81739-40-4

MF C7 H12 N2 O4 S

LC AGRICOLA, BEILSTEIN\*, BIOBUSINESS, BIOSIS, CA, CAPLUS, CASREACT, CEN, CHEMCATS, CIN, CSCHEM, IPA, PHAR, PIRA, PROMT, TOXCENTER, USPAT2, USPATFULL

(\*File contains numerically searchable property data)

## \*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

210 REFERENCES IN FILE CA (1957 TO DATE)

4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

210 REFERENCES IN FILE CAPLUS (1957 TO DATE)

=> SET NOTICE LOGIN DISPLAY

NOTICE SET TO OFF FOR DISPLAY COMMAND SET COMMAND COMPLETED

=>

=> file reg

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

84.33

FULL ESTIMATED COST 2.08

FILE 'REGISTRY' ENTERED AT 23:38:37 ON 25 JUN 2003

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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STRUCTURE FILE UPDATES: 24 JUN 2003 HIGHEST RN 536971-45-6 DICTIONARY FILE UPDATES: 24 JUN 2003 HIGHEST RN 536971-45-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s sodium nitroglycerine/cn L13 0 SODIUM NITROGLYCERINE/CN

=> s nitroglycerine/cn L14 1 NITROGLYCERINE/CN

=> d l14

L14 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 55-63-0 REGISTRY

CN 1,2,3-Propanetriol, trinitrate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1,2,3-Propanetriyl nitrate

CN Adesitrin

CN Angibid

CN Anginine

CN Angiolingual

CN Angorin

CN Aquo-Trinitrosan

CN Blasting oil

CN Cardamist

CN Chitamite

CN Cordipatch

CN Corditrine

CN Coro-Nitro

CN Deponit

CN Diafusor

CN Discotrine

CN Epinitril

CN Gilucor

CN Gilucor nitro

CN Glonoin

CN Glycerin trinitrate

CN Glycerol nitric acid triester

CN Glycerol trinitrate

CN Glyceryl nitrate

CN Glyceryl trinitrate

CN GTN

CN Klavikordal

CN Lenitral

CN Lentonitrina

CN Millisrol

```
CN
    Minitran
CN
    Minitran (nitroglycerin)
CN
    Myoglycerin
CN
    NG
CN
    Niglin
CN
    Niglycon
CN
    Nionq
CN
    Nitora
    Nitrin
CN
    Nitrine
CN
    Nitrine-TDC
CN
CN
    Nitro Mack
    Nitro-Bid
CN
    Nitro-Dur
CN
CN
    Nitro-Gesani
    Nitro-lent
CN
CN
    Nitro-PRN
CN
    Nitro-Span
CN
    Nitrocardin
    Nitroderm .
CN
CN
    Nitroglycerine
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
     DISPLAY
FS
     3D CONCORD
     8013-23-8, 9010-02-0, 105469-31-6, 80066-48-4, 100292-13-5
DR
MF
     C3 H5 N3 O9
CI
                  ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
LC
     STN Files:
       BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
       CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU,
       DETHERM*, DIOGENES, DIPPR*, DRUGNL, DRUGU, DRUGUPDATES, EMBASE, GMELIN*,
       HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
       NIOSHTIC, PDLCOM*, PHAR, PHARMASEARCH, PIRA, PROMT, RTECS*, SPECINFO,
       TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
            0-NO2
O2N-O-CH2-CH-CH2-O-NO2
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
            6455 REFERENCES IN FILE CA (1957 TO DATE)
              32 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
```

=> s sodium nitroglycerine

272955 SODIUM

1 NITROGLYCERINE

L15 0 SODIUM NITROGLYCERINE

(SODIUM(W)NITROGLYCERINE)

=> FIL REGISTRY

COST IN U.S. DOLLARS
SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST
18.96
103.29

6463 REFERENCES IN FILE CAPLUS (1957 TO DATE) 7 REFERENCES IN FILE CAOLD (PRIOR TO 1967) FILE 'REGISTRY' ENTERED AT 23:39:27 ON 25 JUN 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 24 JUN 2003 HIGHEST RN 536971-45-6 DICTIONARY FILE UPDATES: 24 JUN 2003 HIGHEST RN 536971-45-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> S 55-63-0/RN

L16 1 55-63-0/RN

=> SET NOTICE 1 DISPLAY

NOTICE SET TO 1 U.S. DOLLAR FOR DISPLAY COMMAND SET COMMAND COMPLETED

=> D L16 SQIDE 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):Y THE ESTIMATED COST FOR THIS REQUEST IS 5.63 U.S. DOLLARS DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L16 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS

RN 55-63-0 REGISTRY

CN 1,2,3-Propanetriol, trinitrate (9CI) (CA INDEX NAME) OTHER NAMES:

CN 1,2,3-Propanetriyl nitrate

CN Adesitrin

CN Angibid

CN Anginine

CN Angiolingual

CN Angorin

CN Aquo-Trinitrosan

CN Blasting oil

CN Cardamist

CN Chitamite

CN Cordipatch

CN Corditrine

CN Coro-Nitro

CN Deponit

CN Diafusor

CN Discotrine

CN Epinitril

CN Gilucor

CN Gilucor nitro

CN Glonoin

CN Glycerin trinitrate

```
CN
     Glycerol nitric acid triester
CN
     Glycerol trinitrate
CN
     Glyceryl nitrate
CN
     Glyceryl trinitrate
CN
     GTN
     Klavikordal
CN
CN
     Lenitral
     Lentonitrina
CN
     Millisrol
CN
     Minitran
CN
     Minitran (nitroglycerin)
CN
     Myoglycerin
CN
CN
     NG
     Niglin
CN
     Niglycon
CN
CN
     Niong
CN
     Nitora
CN
     Nitrin
CN
     Nitrine
     Nitrine-TDC
CN
CN
     Nitro Mack
     Nitro-Bid
CN
     Nitro-Dur
CN
CN
     Nitro-Gesani
CN
     Nitro-lent
CN
     Nitro-PRN
CN
     Nitro-Span
CN
     Nitrocardin
ADDITIONAL NAMES NOT AVAILABLE IN THIS FORMAT - Use FCN, FIDE, or ALL for
FS
     3D CONCORD
     8013-23-8, 9010-02-0, 105469-31-6, 80066-48-4, 100292-13-5
MF
CI
                  ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
LC
     STN Files:
       BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN,
       CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM, CSNB, DDFU,
       DETHERM*, DIOGENES, DIPPR*, DRUGNL, DRUGU, DRUGUPDATES, EMBASE, GMELIN*,
       HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS,
       NIOSHTIC, PDLCOM*, PHAR, PHARMASEARCH, PIRA, PROMT, RTECS*, SPECINFO,
       TOXCENTER, TULSA, ULIDAT, USAN, USPAT2, USPATFULL, VETU, VTB
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**
         (**Enter CHEMLIST File for up-to-date regulatory information)
```

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L28 ANSWER 1 OF 10 USPATFULL

ACCESSION NUMBER:

2003:146305 USPATFULL

TITLE:

97 human secreted proteins

INVENTOR(S):

Ruben, Steven M., Olney, MD, UNITED STATES

Florence, Kimberly A., Rockville, MD, UNITED STATES

Ni, Jian, Germantown, MD, UNITED STATES

Rosen, Craig A., Laytonsville, MD, UNITED STATES Carter, Kenneth C., North Potomac, MD, UNITED STATES

Moore, Paul A., Germantown, MD, UNITED STATES Olsen, Henrik S., Gaithersburg, MD, UNITED STATES

Shi, Yanggu, Gaithersburg, MD, UNITED STATES Young, Paul E., Gaithersburg, MD, UNITED STATES

Wei, Ying-Fei, Berkeley, CA, UNITED STATES Brewer, Laurie A., St. Paul, MN, UNITED STATES

Soppet, Daniel R., Centreville, VA, UNITED STATES LaFleur, David W., Washington, DC, UNITED STATES

Endress, Gregory A., Florence, MA, UNITED STATES

Ebner, Reinhard, Gaithersburg, MD, UNITED STATES

Birse, Charles E., North Potomac, MD, UNITED STATES

NUMBER KIND DATE -----US 2003100051 A1 20030529

PATENT INFORMATION: APPLICATION INFO.:

US 2001-948783 A1 20010910 (9)

RELATED APPLN. INFO.:

Continuation-in-part of Ser. No. US 2001-892877, filed on 28 Jun 2001, PENDING Continuation of Ser. No. US

1999-437658, filed on 10 Nov 1999, ABANDONED

Continuation-in-part of Ser. No. WO 1999-US9847, filed

on 6 May 1999, UNKNOWN

NUMBER DATE -----

PRIORITY INFORMATION:

US 2000-231846P 20000911 (60) US 1998-85093P 19980512 (60) US 1998-85094P 19980512 (60) US 1998-85105P 19980512 (60) US 1998-85180P 19980512 (60) US 1998-85927P 19980518 (60) US 1998-85906P 19980518 (60) US 1998-85920P 19980518 (60) US 1998-85924P 19980518 (60) US 1998-85922P 19980518 (60) US 1998-85923P 19980518 (60) US 1998-85921P 19980518 (60) US 1998-85925P 19980518 (60) US 1998-85928P 19980518 (60)

DOCUMENT TYPE:

Utility APPLICATION

FILE SEGMENT: LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS:

EXEMPLARY CLAIM:

23 1

NUMBER OF DRAWINGS:

6 Drawing Page(s)

LINE COUNT:

32767

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM

. . . indicates it plays a role in normal neural function. Potentially, this gene product is involved in synapse formation,

neurotransmission, learning, cognition, homeostasis, or

neuronal differentiation or survival. The tissue distribution in T-cells indicates that polynucleotides and polypeptides corresponding to this

SUMM

. . . indicates it plays a role in normal neural function. Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival.

SUMM . . . breast cancer and uterine cancer. Expression of this gene in brain also indicates that it may play a role in neurological function, and that its absence may lead to disorders such as Alzheimer's and/or Parkinson's disease. Expression of this gene product at. . .

SUMM . . . involved in neuronal survival; synapse formation; conductance; neural differentiation, etc. Such involvement may impact many processes, such as learning and cognition. Additionally, the amygdala processes sensory information and relays this to other areas of the brain including the endocrine and autonomic. . .

SUMM . . . indicates it plays a role in normal neural function.

Potentially, this gene product is involved in synapse formation,
neurotransmission, learning, cognition, homeostasis, or
neuronal differentiation or survival. In addition, the gene or gene
product may also play a role in the. . .

SUMM . . . involved in neuronal survival, synapse formation, conductance, neural differentiation, etc. Such involvement may impact many processes, such as learning and cognition. It may also be useful in the treatment of such neurodegenerative disorders as schizophrenia, ALS, or Alzheimer's. Furthermore, the protein. . .

SUMM . . . indicates it plays a role in normal neural function.

Potentially, this gene product is involved in synapse formation,
neurotransmission, learning, cognition, homeostasis, or
neuronal differentiation or survival. In addition, the gene or gene
product may also play a role in the. . .

SUMM . . . involved in neuronal survival; synapse formation; conductance; neural differentiation, etc. Such involvement may impact many processes, such as learning and cognition. Polynucleotides and polypeptides corresponding to this gene may also be useful in the treatment of such neurodegenerative disorders as schizophrenia; . . .

SUMM . . . role in normal neural function. Potentially, polynucleotides and polypeptides corresponding to this gene are involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies, . . .

SUMM . . . in normal neural function. Potentially, polynucleotides and polypeptides corresponding to this gene would be involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. The tissue distribution in B-cells and macrophage indicates that polynucleotides and polypeptides corresponding to . . .

SUMM . . . role in normal neural function. Potentially, polynucleotides and polypeptides corresponding to this gene are involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies, . . .

SUMM . . . role in normal neural function. Potentially, polynucleotides and polypeptides corresponding to this gene are involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies, . . .

SUMM . . . a role in normal neural function. Potentially, polynucleotides and polypeptides of the invention are involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. In addition, the gene or gene product may also play a role in the. . .

SUMM . . . role in normal neural function. Potentially, polynucleotides and polypeptides corresponding to this gene are involved in synapse formation, neurotransmission, learning, cognition,

homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies, . . .

SUMM . . . role in normal neural function. Potentially, polynucleotides and polypeptides corresponding to this gene are involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Polynucleotides and polypeptides of the invention would be useful as reagents for differential identification. . .

SUMM . . . indicates it plays a role in normal neural function.

Potentially, this gene product is involved in synapse formation,
neurotransmission, learning, cognition, homeostasis, or
neuronal differentiation or survival. The tissue distribution in testes,
kidney, and other tissues associates with the endocrine system. . .

SUMM . . . a role in normal neural function. Potentially, polynucleotides and polypeptides of the invention are involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Moreover, the expression within fetal tissue and other cellular sources marked by proliferating cells.

SUMM . . . a role in normal neural function. Potentially, polynucleotides and polypeptides of the invention are involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. The tissue distribution in bone marrow and other immune tissues indicates that polynucleotides and. .

SUMM . . . involved in neuronal survival; synapse formation; conductance; neural differentiation, etc. Such involvement may impact many processes, such as learning and cognition. Alternatively, the tissue distribution in endometrial tumor tissue indicates that polynucleotides and polypeptides of the invention would be useful for . . . SUMM . . . which are useful for treating or preventing a nervous system

. . which are useful for treating or preventing a nervous system disorder may be selected by testing for biological activity in promoting the survival or differentiation of neurons. For example, and not by way of limitation, compositions of the invention which elicit. . . time of neurons in culture; (2) increased sprouting of neurons in culture or in vivo; (3) increased production of a neuron-associated molecule in culture or in vivo, e.g., choline acetyltransferase or acetylcholinesterase with respect to motor neurons; or (4) decreased symptoms of neuron dysfunction in vivo. Such effects may be measured by any method known in the art. In preferred, non-limiting embodiments, increased. . . in Pestronk et al. (Exp. Neurol. 70:65-82 (1980)) or Brown et al. (Ann. Rev. Neurosci. 4:17-42 (1981)); increased production of neuron-associated molecules may be measured by bioassay, enzymatic assay, antibody binding, Northern blot assay, etc., using techniques known in the art and depending on the molecule to be measured; and motor neuron dysfunction may be measured by assessing the physical manifestation of motor neuron disorder, e.g., weakness, motor neuron conduction velocity, or functional disability.

SUMM . . . for pain, reproductive capabilities (preferably by Activin or Inhibin-like activity), hormonal or endocrine levels, appetite, libido, memory, stress, or other cognitive qualities.

DETD . . mg/L of Stearic Acid; 2.20 mg/L of Tween 80; 4551 mg/L of D-Glucose; 130.85 mg/ml of L-Alanine; 147.50 mg/ml of L-Arginine-HCL; 7.50 mg/ml of L-Asparagine-H.sub.20; 6.65 mg/ml of L-Aspartic Acid; 29.56 mg/ml of L-Cystine-2HCL-H.sub.20; 31.29 mg/ml of L-Cystine-2HCL; 7.35 mg/ml of . .

DETD . . . describing the biological effects of FGF-2 (basic FGF) on cortical or hippocampal neurons in vitro have demonstrated increases in both neuron survival and neurite outgrowth (Walicke et al., "Fibroblast growth factor promotes survival of dissociated hippocampal neurons and enhances neurite extension." Proc. Natl. Acad. Sci. USA 83:3012-3016. (1986), assay herein incorporated by. . .

. of the electrode 2 mm under the surface of the solution, before DETD addition of the different conditions. S-nitroso acetyl penicillamin ( SNAP) is used as a positive control. The amount of released NO is expressed as picomoles per 1.times.10.sup.6 endothelial cells. All.

L28 ANSWER 2 OF 10 USPATFULL

ACCESSION NUMBER:

2003:113076 USPATFULL

TITLE:

97 human secreted proteins

INVENTOR(S):

Ruben, Steven M., Olney, MD, UNITED STATES Florence, Kimberly, Rockville, MD, UNITED STATES

Ni, Jian, Rockville, MD, UNITED STATES

Rosen, Craig A., Laytonsville, MD, UNITED STATES Carter, Kenneth C., North Potomac, MD, UNITED STATES

Moore, Paul A., Germantown, MD, UNITED STATES Olsen, Henrik, Gaithersburg, MD, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES Young, Paul, Gaithersburg, MD, UNITED STATES Wei, Ying-Fei, Berkeley, CA, UNITED STATES

Brewer, Laurie A., St. Paul, MN, UNITED STATES Soppet, Daniel R., Centreville, CA, UNITED STATES LaFleur, David W., Washington, DC, UNITED STATES Endress, Gregory A., Potomac, MD, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES

KIND NUMBER DATE

PATENT INFORMATION: APPLICATION INFO.:

US 2003077809 A1 20030424

RELATED APPLN. INFO.:

A1 20010628 US 2001-892877 (9)

Continuation of Ser. No. US 1999-437658, filed on 10 Nov 1999, ABANDONED Continuation-in-part of Ser. No. WO

1999-US9847, filed on 6 May 1999, UNKNOWN

NUMBER DATE \_\_\_\_\_\_\_

PRIORITY INFORMATION:

US 1998-85093P 19980512 (60) US 1998-85094P 19980512 (60) US 1998-85105P 19980512 (60) US 1998-85180P 19980512 (60) US 1998-85927P 19980518 (60) US 1998-85906P 19980518 (60) US 1998-85920P 19980518 (60) US 1998-85924P 19980518 (60) US 1998-85922P 19980518 (60) US 1998-85923P 19980518 (60) US 1998-85921P 19980518 (60) US 1998-85925P 19980518 (60) US 1998-85928P 19980518 (60)

DOCUMENT TYPE:

Utility

FILE SEGMENT:

APPLICATION

LEGAL REPRESENTATIVE:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: EXEMPLARY CLAIM:

23 1

LINE COUNT:

25009

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM

[0138] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or

neuronal differentiation or survival. The tissue distribution in T-cells indicates polynucleotides and polypeptides corresponding to this gene

SUMM

breast cancer and uterine cancer. Expression of this gene in brain also indicates that it may play a role in neurological function, and that its absence may lead to disorders such as

Alzheimer's & Parkinson's Disease. Expression of this gene product at.

- SUMM . . . involved in neuronal survival; synapse formation; conductance; neural differentiation, etc. Such involvement may impact many processes, such as learning and cognition.
- SUMM [0297] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. In addition, the gene or gene product may also play a role in the. . .
- SUMM . . . involved in neuronal survival, synapse formation, conductance, neural differentiation, etc. Such involvement may impact many processes, such as learning and cognition. It may also be useful in the treatment of such neurodegenerative disorders as schizophrenia, ALS, or Alzheimer's. Furthermore, the protein. . .
- SUMM [0392] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. In addition, the gene or gene product may also play a role in the. . .
- SUMM [0404] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies,. . .
- SUMM . . . involved in neuronal survival; synapse formation; conductance; neural differentiation, etc. Such involvement may impact many processes, such as learning and cognition. It may also be useful in the treatment of such neurodegenerative disorders as schizophrenia; ALS; or Alzheimer's. Furthermore, the protein. . .
- SUMM [0420] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies,. . .
- SUMM [0504] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. The tissue distribution in B-cells and macrophage indicates polynucleotides and polypeptides corresponding to this. . .
- SUMM [0573] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies,. . .
- SUMM [0628] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies,. . .
- SUMM [0646] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. In addition, the gene or gene product may also play a role in the. . .
- SUMM [0672] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies,. . .
- SUMM [0713] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, **cognition**, homeostasis, or neuronal differentiation or survival.
- SUMM [0799] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. The tissue distribution in testes, kidney, and other tissues associates with the endocrine system. . .
- SUMM [0816] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Moreover, the expression within fetal tissue and other cellular sources marked by proliferating cells.

SUMM [0826] Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. The tissue distribution in bone marrow and other immune tissues indicates polynucleotides and polypeptides. . .

SUMM . . . involved in neuronal survival; synapse formation; conductance; neural differentiation, etc. Such involvement may impact many processes, such as learning and cognition.

SUMM . which are useful for treating or preventing a nervous system disorder may be selected by testing for biological activity in promoting the survival or differentiation of neurons. For example, and not by way of limitation, compositions of the invention which elicit. . . time of neurons in culture; (2) increased sprouting of neurons in culture or in vivo; (3) increased production of a neuron-associated molecule in culture or in vivo, e.g., choline acetyltransferase or acetylcholinesterase with respect to motor neurons; or (4) decreased symptoms of neuron dysfunction in vivo. Such effects may be measured by any method known in the art. In preferred, non-limiting embodiments, increased. . . in Pestronk et al. (Exp. Neurol. 70:65-82 (1980)) or Brown et al. (Ann. Rev. Neurosci. 4:17-42 (1981)); increased production of neuron-associated molecules may be measured by bioassay, enzymatic assay, antibody binding, Northern blot assay, etc., using techniques known in the art and depending on the molecule to be measured; and motor neuron dysfunction may be measured by assessing the physical manifestation of motor neuron disorder, e.g., weakness, motor neuron conduction velocity, or functional disability.

SUMM . . . for pain, reproductive capabilities (preferably by Activin or Inhibin-like activity), hormonal or endocrine levels, appetite, libido, memory, stress, or other **cognitive** qualities.

DETD . . . mg/L of Stearic Acid; 2.20 mg/L of Tween 80; 4551 mg/L of D-Glucose; 130.85 mg/ml of L-Alanine; 147.50 mg/ml of L-Arginine-HCL; 7.50 mg/ml of L-Asparagine-H.sub.20; 6.65 mg/ml of L-Aspartic Acid; 29.56 mg/ml of L-Cystine-2HCL-H.sub.20; 31.29 mg/ml of L-Cystine-2HCL; 7.35 mg/ml of . . .

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DETD . . . of the electrode 2 mm under the surface of the solution, before addition of the different conditions. S-nitroso acetyl penicillamin (SNAP) is used as a positive control. The amount of released NO is expressed as picomoles per 1.times.10.sup.6 endothelial cells. All.

L28 ANSWER 3 OF 10 USPATFULL

ACCESSION NUMBER: TITLE:

INVENTOR(S):

2003:57524 USPATFULL Secreted protein HT5GJ57

Ruben, Steven M., Olney, MD, UNITED STATES
Komatsoulis, George, Silver Spring, MD, UNITED STATES
Duan, Roxanne D., Bethesda, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
Moore, Paul A., Germantown, MD, UNITED STATES
Shi, Yanggu, Gaithersburg, MD, UNITED STATES
LaFleur, David W., Washington, DC, UNITED STATES
Ebner, Reinhard, Gaithersburg, MD, UNITED STATES
Olsen, Henrik S., Gaithersburg, MD, UNITED STATES
Brewer, Laurie A., St. Paul, MN, UNITED STATES
Florence, Kimberly A., Rockville, MD, UNITED STATES
Young, Paul E., Gaithersburg, MD, UNITED STATES
Mucenski, Michael, Cincinnati, OH, UNITED STATES
Endress, Gregory A., Florence, MA, UNITED STATES

Soppet, Daniel R., Centreville, VA, UNITED STATES PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, UNITED

STATES, 20850 (U.S. corporation)

RELATED APPLN. INFO.: Division of Ser. No. US 2000-482273, filed on 13 Jan

2000, PENDING Continuation-in-part of Ser. No. WO

1999-US15849, filed on 14 Jul 1999, UNKNOWN

NUMBER DATE

PRIORITY INFORMATION: US 1998-92921P 19980715 (60) US 1998-92922P 19980715 (60)

US 1998-92956P 19980715 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE,

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 46 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 3 Drawing Page(s)

LINE COUNT: 24720

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . indicates it plays a role in normal neural function.

Potentially, this gene product is involved in synapse formation,
neurotransmission, learning, cognition, homeostasis, or
neuronal differentiation or survival. Furthermore, the protein may also
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L28 ANSWER 4 OF 10 USPATFULL

2003:23660 USPATFULL ACCESSION NUMBER: Secreted protein HT5GJ57 TITLE:

Ruben, Steven M., Olney, MD, UNITED STATES INVENTOR(S):

Komatsoulis, George, Silver Spring, MD, UNITED STATES Duan, Roxanne D., Bethesda, MD, UNITED STATES Rosen, Craig A., Laytonsville, MD, UNITED STATES Moore, Paul A., Germantown, MD, UNITED STATES Shi, Yanggu, Gaithersburg, MD, UNITED STATES LaFleur, David W., Washington, DC, UNITED STATES Ebner, Reinhard, Gaithersburg, MD, UNITED STATES Olsen, Henrik, Gaithersburg, MD, UNITED STATES Brewer, Laurie A., St. Paul, MN, UNITED STATES

Florence, Kimberly A., Rockville, MD, UNITED STATES Young, Paul, Gaithersburg, MD, UNITED STATES Mucenski, Michael, Cincinnati, OH, UNITED STATES Endress, Gregory A., Florence, MA, UNITED STATES Soppet, Daniel R., Centreville, VA, UNITED STATES Human Genome Sciences, Inc., Rockville, MD (U.S.

PATENT ASSIGNEE(S): corporation)

> NUMBER KIND DATE \_\_\_\_\_

PATENT INFORMATION: APPLICATION INFO.:

A1 20030123 US 2003017500 US 2001-984276 A1 20011029 (9)

Division of Ser. No. US 2000-482273, filed on 13 Jan RELATED APPLN. INFO.: 2000, PENDING Continuation-in-part of Ser. No. WO 1999-US15849, filed on 14 Jul 1999, UNKNOWN

DATE NUMBER US 1998-92921P 19980715 (60) PRIORITY INFORMATION: 19980715 (60) US 1998-92922P US 1998-92956P 19980715 (60)

DOCUMENT TYPE: Utility APPLICATION FILE SEGMENT:

HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, LEGAL REPRESENTATIVE:

ROCKVILLE, MD, 20850

NUMBER OF CLAIMS: 74 EXEMPLARY CLAIM:

3 Drawing Page(s) NUMBER OF DRAWINGS:

LINE COUNT: 25053

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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L28 ANSWER 5 OF 10 USPATFULL

ACCESSION NUMBER: 2003:74478 USPATFULL TITLE: Secreted protein HT5GJ57

INVENTOR(S): Ruben, Steven M., Olney, MD, United States

Komatsoulis, George, Silver Spring, MD, United States Duan, Roxanne D., Bethesda, MD, United States Rosen, Craig A., Laytonsville, MD, United States Moore, Paul A., Germantown, MD, United States Shi, Yanggu, Gaithersburg, MD, United States LaFleur, David W., Washington, DC, United States Ebner, Reinhard, Gaithersburg, MD, United States Olsen, Henrik, Gaithersburg, MD, United States Brewer, Laurie A., St. Paul, MN, United States Florence, Kimberly A., Rockville, MD, United States

Young, Paul, Gaithersburg, MD, United States Mucenski, Michael, Cincinnati, OH, United States Endress, Gregory A., Potomac, MD, United States Soppet, Daniel R., Centreville, VA, United States Human Genome Sciences, Inc., Rockville, MD, United

PATENT ASSIGNEE(S): Human Genome Sciences, In States (U.S. corporation)

PATENT INFORMATION: US 6534631 B1 20030318 APPLICATION INFO.: US 2000-482273 20000113 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. WO 1999-US15849, filed

on 14 Jul 1999

PRIMARY EXAMINER: Borin, Michael ASSISTANT EXAMINER: Zhou, Shubo (Joe) LEGAL REPRESENTATIVE: Human Genome Sciences, Inc. NUMBER OF CLAIMS: EXEMPLARY CLAIM: NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s) LINE COUNT: 23784 CAS INDEXING IS AVAILABLE FOR THIS PATENT. SUMM indicates it plays a role in normal neural function. Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies,. . . indicates it plays a role in normal neural function. SUMM Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies,. indicates it plays a role in normal neural function. SUMM Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Alternatively, expression of this gene in colon may indicate a role in the detection,. indicates it plays a role in normal neural function. SUMM Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies,. SUMM indicates it plays a role in normal neural function. Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies,. SUMM . indicates that polynucleotides and polypeptides corresponding to this gene are useful for study and treatment of central nervous system, neurodevelopmental, cognitive, and memory disorders. The tissue distribution also indicates that polynucleotides and polypeptides corresponding to this gene are useful for the. indicates it plays a role in normal neural function. Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies,. indicates it plays a role in normal neural function. SUMM Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Furthermore, the protein may also be used to determine biological activity, to raise antibodies,. SUMM indicates it plays a role in normal neural function. Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. SUMM indicates it plays a role in normal neural function. Potentially, this gene product is involved in synapse formation, neurotransmission, learning, cognition, homeostasis, or neuronal differentiation or survival. Alternately, expression of this qene product in hematopoietic cells indicates that it may be. SUMM Moreover, expression of this gene product in other regions of the brain indicates that it may be involved in normal neurological function, and may be useful in the treatment of a variety of

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"Biological.

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       is expressed as picomoles per 1.times.10.sup.6 endothelial cells. All.
L28 ANSWER 6 OF 10 IFIPAT COPYRIGHT 2003 IFI
                                                       DUPLICATE 1
AN
                          10211466 IFIPAT; IFIUDB; IFICDB
TITLE:
                          NITRIC OXIDE DONORS FOR INDUCING NEUROGENESIS
INVENTOR(S):
                          Chopp; Michael, Southfield, MI, US
                          Zhang; Rui Lan, Troy, MI, US
PATENT ASSIGNEE(S):
                          Unassigned
                          KOHN & ASSOCIATES, Suite 410, 30500 Northwestern
AGENT:
                         Highway, Farmington Hills, MI, 48334, US
```

neurotransmission, learning, cognition, homeostasis, or

NUMBER PK DATE
----FORMATION: US 2002155173 A1 20021024

PATENT INFORMATION:

GRANTED PATENT NO.

APPLN. NUMBER DATE OR STATUS

------

CONTINUATION-IN-PART OF: US 2002-18201 20020402 PENDING Section 371 PCT Filing OF:WO 1900-US16353 20000614 UNKNOWN

NUMBER DATE

PRIORITY APPLN. INFO.: US 1999-138971P 19990614 (Provisional)

FAMILY INFORMATION: US 2002155173 20021024

DOCUMENT TYPE: Utility

Patent Application - First Publication

FILE SEGMENT: CHEMICAL
APPLICATION
NUMBER OF CLAIMS: 8 25 Figure(s).

DESCRIPTION OF FIGURES:

FIG. 1 is a photograph showing the BrdU-positive nuclei in the selected areas; FIGS. 2A and 2B are graphs showing the amount of BrdU-positive cells in the subventricular zone (SVZ);

FIG. 3 is a graph showing the amount of BrdU-positive cells in the dentate gyrus;

FIGS. 4A and 4B are graphs showing the percent of distribution of BrdU cells in the dentate gyrus;

FIG. 5 is a photograph showing the size of BrdU immunoreactive cells in relation to granule cells in granule layers;

FIGS. 6A and 6B are graphs showing the amount of BrdU-positive cells in the SVZ;

FIGS. 7A and 7B are graphs showing the amount of BrdU-positive cells in the olfactory bulb (OB);

FIGS. 8A and 8B are graphs showing the amount of BrdU-positive cells in the dentate gyrus;

FIG. 9 is a graph showing a lesion volume study;

FIG. 10 is a graph showing in Time versus MCAo, the results of an adhesive removal test;

FIG. 11 is a graph showing the results of a Rotarod test;

FIG. 12 is a graph showing the result of the NSS test;

FIG. 13 is a graph showing the percent weight;

FIG. 14 is a graph showing the results of a Rotarod test;

FIG. 15 is a graph showing further results of a Rotarod test

FIG. 16 is a graph showing the results of the footfault test;

FIG. 17 is a graph showing the results of further adhesive removal tests; FIGS. 18A and 18B are bar graphs showing cell proliferation in Dentate Gyrus (FIG. 18A) and SVZ (FIG. 18B) in ischemic mice treated with saline and varying doses of sildenafil;

FIGS. 19A-F are photographs and graphs showing TuJ1 immunoreactive cells in the SVZ (FIGS. 19A-C) and dentate gyrus (FIGS. 19D-F) 28 days after ischemia; FIGS. 20A and 20B are line graphs showing the effects of sildenafil treatment on the foot fault test;

FIGS. 21A and 21B are line graphs showing the effects of sildenafil treatment on the adhesive removal test;

FIGS. 22A and 22B are line graphs showing the effects of sildenafil treatment on animal body weight loss;

FIGS. 23A-C are line graphs showing the effects of sildenafil treatment on the foot fault test (FIG. 23A), adhesive removal test (FIG. 23B), and body weight loss (FIG. 23C) when treatment was initiated 24 hours after ischemia;

FIGS. 24A and 24B are bar graphs showing levels of cGMP in the cerebellum (FIG. 24A) and cortex (FIG. 24B) after treatment with sildeafil in non ischemic rats; and

FIGS. 25A and 25B are photographs showing RT-PCR of PDE5A1 (FIG. 25A) and PDE5A2 (FIG. 25B) mRNA in the cortex of non ischemic rats and the ipsilateral cortex of rats 2 hours to 7 days after ischemia.

II NITRIC OXIDE DONORS FOR INDUCING NEUROGENESIS

AB There is provided a method of promoting neurogenesis by administering a therapeutic amount of a nitric oxide donor compound to a patient in need of neurogenesis promotion. Also provided is a compound for providing neurogenesis having an effective amount of a nitric oxide donor sufficient to promote neurogenesis. A nitric oxide compound for promoting neurogenesis is also provided. Further, a method of augmenting the production of brain cells and facilitating cellular structural and receptor changes. . . compound to a site in need of augmentation is provided. There is provided a method of increasing both neurological and cognitive function by administering an effective amount of a nitric oxide donor compound to a patient.

**ECLM** 

DRAWING

1. A method of promoting **neurogenesis** comprising the step of: administering a therapeutic amount of a nitric oxide donor compound to a patient in need of **neurogenesis** promotion.

ACLM 2. A compound for promoting neurogenesis comprising an effective amount of a nitric oxide donor sufficient to promote neurogenesis.

- 3. A neurogenesis promoter comprising a nitric oxide donor in a pharmaceutically acceptable carrier.
- 4. The neurogenesis promoter according to claim 3, wherein said nitric oxide donor augments nitric oxide in a tissue.
- 5. The neurogenesis promoter according to claim 4, wherein said nitric oxide donor is selected from the group consisting essentially of phosphodiesterase inhibitors, L-arginine, sildenafil, and LIPITOR.
- 7. A method of increasing neurological function by administering an effective amount of a nitric oxide donor to a patient.
- 8. A method of increasing **cognitive** and **neurological function** by administering an effective amount of a nitric oxide donor compound to a patient.

L28 ANSWER 7 OF 10 USPATFULL

ACCESSION NUMBER: 2002:300807 USPATFULL

TITLE: Methods for treating disorders of neuronal deficiency

with bone marrow-derived cells

INVENTOR(S): Brazelton, Timothy R., Cupertino, CA, UNITED STATES

Blau, Helen M., Menlo Park, CA, UNITED STATES

NUMBER DATE

PRIORITY INFORMATION: US 2000-247128P 20001110 (60) DOCUMENT TYPE: Utility

FILE SEGMENT: OCCITICATION

LEGAL REPRESENTATIVE: MORRISON & FOERSTER LLP, 755 PAGE MILL RD, PALO ALTO,

CA, 94304-1018

NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1
LINE COUNT: 1696

SUMM [0041] The term "epilepsy" refers to those neuronal deficiencies characterized by chronic, recurrent paroxysmal changes in neurological function. Each episode is referred to as

a "seizure", and may present with motor, sensory, autonomic, or psychic symptoms. Seizures with. . .

SUMM . . . disorders (DSM-IV 292, 292.11, 292.12, 292.81-.84, 292.89, 292.9), psychiatric disorders secondary to a medical condition (DSM-IV 293.83, 293.89, 293.9, 294), cognitive disorders (DSM-IV

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294.9), depressive disorders (DSM-IV 296.3, 296.31-.35, 311), bipolar
disorders (DSM-IV 296.4, 296.41-.46, 296.5, 296.51-.56, 296.6,
296.61-.66, 296.7, 296.8,. . . stress disorder (DSM-IV 309.81), mental retardation, (DSM-IV 317, 318, 318.1, 318.2, 319),
neuroleptic-induced Parkinsonism (DMS-IV 332.1), narcolepsy (DSM-IV
347), age-related cognitive decline (DSM-WV 780.9), borderline
intellectual functioning (DSM-IV V62.89). The term "psychiatric
disorders other than schizophrenia", as used herein, specifically
excludes.
. . desirable in the disorder to be treated is introduced into the
bone marrow-derived cells. The construct may employ a ubiquitous
promoter (beta-actin, for example), but neuron
-specific promoters, such as the promoters for NeuN
(neuronal nuclei), Calmodulin-dependent Protein Kinase II (CaMKII),
Calmodulin-dependent Protein Kinase IV (CaMKIV), any of the
neurofilaments (including the. . . kD, 145 kD, 70 kD, and 65 kD
forms), class III beta-tubulin calbindin D-28k, microtubule associated
protein 2, synaptic protein SNAP-25, synaptophysin, NMDA
receptor, neuron specific enclase, tyrosine hydroxylase,
neural nestin, synapsin-1, tau, Hu, doublecortin, and the like, are
preferred. For example, when the bone.
```

DETD . . . 20% sucrose in phosphate buffer overnight at 4.degree. C. The brains were embedded in TISSUE-TEK.RTM. O.C.T. compound (Sakura Finetek) and snap frozen. 20-40 .mu.m coronal cryosections were taken from the olfactory bulb (Bregma -4.1 to -3.6).

L28 ANSWER 8 OF 10 USPATFULL

SUMM

ACCESSION NUMBER: 2002:221781 USPATFULL

TITLE: Methods and compositions for producing a neurosalutary

effect in a subject

INVENTOR(S): Benowitz, Larry I., Newton Square, MA, UNITED STATES

NUMBER KIND DATE
----US 2002119923 A1 20020829
US 2001-872347 A1 20010601 (9)

NUMBER DATE

PRIORITY INFORMATION: US 2000-208778P 20000601 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: LAHIVE & COCKFIELD, 28 STATE STREET, BOSTON, MA, 02109

NUMBER OF CLAIMS: 46
EXEMPLARY CLAIM: 1
LINE COUNT: 1372

PATENT INFORMATION: APPLICATION INFO.:

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

SUMM . . . effect in a subject with a neurological condition; such effects include promoting neuronal survival, axonal outgrowth, neuronal regeneration or normalized neurological function in a subject.

SUMM . . . peptide; calcium ionophores; membrane depolarization; macrophage-derived factors that stimulate cAMP; agents that stimulate macrophage activation such as zymosan or IFN-.gamma.; phosphodiesterase inhibitors such as pentoxifylline and theophylline; specific phosphodiesterase IV (PDE IV) inhibitors; and beta 2-adrenoreceptor agonists such as salbutamol. The term. . .

SUMM . . . or to the brain, cranial nerves, traumatic brain injury, stroke, cerebral aneurism, and spinal cord injury. Other neurological disorders include cognitive and neurodegenerative disorders such as Alzheimer's disease, dementias related to Alzheimer's disease (such as Pick's disease), Parkinson's and other Lewy.

SUMM . . . with an axogenic factor and/or a cAMP modulator) to produce a neurosalutary effect in a subject include standard tests of

neurological function in human subjects or in animal
models of spinal injury (such as standard reflex testing, urologic
tests, urodynamic testing, tests. . .

DETD . . . the retina was in question were excluded from the study. For intraocular injections, the globe was retracted with a mosquito snap to expose its posterior aspect. In some cases, injections were made through the sclera and retina with a 30G needle. . .

DETD . . . (1993) Glia, 7:102-110; Kreutzberg (1996) Trends Neurosci.

19:312-318). In the rat striatum, puncture wounds stimulate microglia
that express BDNF and promote the infiltration of macrophages
that express GDNF; these two growth factors are likely to contribute to
the survival and outgrowth. . . (1999) Neuroreport 10:419-422), and
CNTF can stimulate RGC survival (Mey and Thanos (1993) Brain Res.
602:304-317; Meyer-Franke et al. (1995) Neuron 15:805-819) and
axon regeneration (Jo et al. (1999) Neuroscience 89:579-591; Cui et al.
(1999) Invest. Ophthalmol. Vis. Sci. 40:760-766). However, . .

CLM What is claimed is:

. cAMP modulator is non-hydrolyzable cAMP analogues, adenylate cyclase activators, macrophage-derived factors that stimulate cAMP, macrophage activators, calcium ionophores, membrane depolarization, phosphodiesterase inhibitors, specific

phosphodiesterase IV inhibitors, beta2-adrenoreceptor inhibitors or vasoactive intestinal peptide.

L28 ANSWER 9 OF 10 USPATFULL

ACCESSION NUMBER: 2002:191539 USPATFULL

TITLE: Full-length human cDNAs encoding potentially secreted

proteins

INVENTOR(S): Milne Edwards, Jean-Baptiste Dumas, Paris, FRANCE

Bougueleret, Lydie, Petit Lancy, SWITZERLAND

Jobert, Severin, Paris, FRANCE

NUMBER DATE

PRIORITY INFORMATION: US 1999-169629P 19991208 (60) US 2000-187470P 20000306 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION

LEGAL REPRESENTATIVE: John Lucas, Ph.D., J.D., Genset Corporation, 10665

Srrento Valley Road, San Diego, CA, 92121-1609

NUMBER OF CLAIMS: 29 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 5 Drawing Page(s)

LINE COUNT: 28061

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

DETD [0670] The helix-loop-helix (HLH) family of transcriptional regulators is involved in the control of different cellular differentiation phenomenon such as neurogenesis, haematopoiesis, myogenesis and angiogenesis. The HLH proteins are found in all eukaryotic organisms ranging from yeast saccharomyces cerevisiae to human. . .

DETD . . . injury, neuro-degenerative disorders (acute and chronic),
Huntington's disease, Parkinson's disease, migraine, depression,
peripheral neuropathy, pain, cerebral amyloid angiopathy, nootropic or
cognition enhancement, amyotrophic lateral sclerosis, ocular
angiogenesis, macular degeneration, abnormal wound healing, bums,
diabetes, scleritis, AIDS, sepsis, septic shock.

DETD . . . in humans. These WD-40 proteins turn off a wide variety of genes, including those involved in segmentation, sex determination, and

neurogenesis (controlled by Groucho) and those involved in photomorphogenesis (controlled by COP1). All of these WD40 containing proteins have been proposed. . . vesicle exocytosis, the vesicular protein synaptobrevin (also DETD called Vesicle-Associated Membrane Protein; VAMP) is the v-SNARE, and the plasma membrane-associated protein SNAP-25 (Synaptosomal-Associated Protein of 25 kDa) and syntaxin 1 function as t-SNARE. Formation of the SNARE complex (or core complex) is followed by recruitment of the cytosolic proteins alpha, beta and gamma SNAP (Soluble N-ethylmaleimide-sensitive Attachment Protein) and NSF (N-ethylmaleimide-Sensitive Factor), which are required for membrane fusion. Proteins from two gene families have. . . interact with syntaxin isoforms 1a, 2 and 3. However, Munc-18 DETD has not been found to be part of the 20S SNARE/SNAP/NSF protein complex. In vitro, the binding of Munc-18 to syntaxin inhibits the interaction of syntaxin with VAMP and SNAP-25 as well as SNAP-23 (a homologue of SNAP-25) and thereby negatively regulates the formation of the synaptic SNARE fusion complex. In agreement with a negative regulatory role of. . . . . . the vesicular protein synaptobrevin and synaptogyrin (also DETD called Vesicle-Associated Membrane Protein; VAMP) are the v-SNARE, and the plasma membrane-associated protein SNAP-25 (Synaptosomal-Associated Protein of 25 kDa) and syntaxin 1 function as t-SNARE. Formation of the SNARE complex (or core complex) is followed by recruitment of the cytosolic proteins alpha, beta and gamma SNAP (Soluble N-ethylmaleimide-sensitive Attachment Protein) and NSF (N-ethylmaleimide-Sensitive Factor), which are required for membrane fusion. In transfected PC12 cells, synaptogyrin 1. . . disorder or condition associated with abnormal neurotransmitter DETD release, such as depression, which is associated with decreased serotonin secretion, or any neurological function, e.g. memory, which could be enhanced or otherwise modulated by altering the quantity, frequency, or any other property of neurotransmitter. involved in neuronal survival, synapse formation, conductance, DETD neural differentiation, etc. Such involvment may impact many processes, such as learing and cognition. Alternatively, the tissue distribution in endometiral tumor tissue, germ cell tumors and skin melanomas indicates that the translation product of. . . protein, carbohydrate, vitamins, minerals, cofactors or other DETD nutritional factors or component(s); effecting behavioral characteristics, including, without limitation, appetite, libido, stress, cognition (including cognitive disorders), depression (including depressive disorders) and violent behaviors; providing analgesic effects or other pain reducing effects; promoting differentiation and growth. . . L28 ANSWER 10 OF 10 USPATFULL 2000:137814 USPATFULL ACCESSION NUMBER: Allelic polygene diagnosis of reward deficiency TITLE: syndrome and treatment

INVENTOR(S):

PATENT ASSIGNEE(S):

Blum, Kenneth, San Antonio, TX, United States City of Hope National Medical Center, Duarte, CA,

United States (U.S. corporation)

The University of Texas System AMD Board of Regents,

Austin, TX, United States (U.S. corporation)

	NUMBER	KIND	DATE
TENT INFORMATION:	US 6132724		20001017
DITCAMION INDO	TIC 1000 C000C		10000420

APPLICATION INFO.:

DOCUMENT TYPE:
FILE SEGMENT:
PRIMARY EXAMINER:

US 6132724 20001017 US 1998-69886 19980429 (9) Utility

Granted Witz, Jean C.

LEGAL REPRESENTATIVE: Hodgins, Daniel S.

NUMBER OF CLAIMS: 9 EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 8 Drawing Figure(s); 8 Drawing Page(s)

LINE COUNT: 20845

summ . . . the etiology of attention-deficit hyperactivity disorder. A significant increase in plasma noradreneline (NA) in ADHD children with reading and other cognitive disabilities compared to ADHD children without cognitive disabilities has been demonstrated (Halperin et al., YEAR). They proposed that the ADHD+cognitive disabilities was associated with NA dysregulation affecting the parietal/temporal lobe attention centers. Since these brain areas are in proximity to auditory and linguistic processing regions, this could account for the comorbid cognitive disabilities. From a clinical perspective, the significant improvement in symptoms that often occurs following treatment with clonidine (Hunt et al., . .

SUMM . . . assessed by the WRAT-R (Wide-Range Achievement Test-Revised).

This distinction was consistent with prior studies of others suggesting that ADHD with cognitive disabilities was a distinct subtype of ADHD (August and Garfinkel, 1989; McGee et al., 1989; Pennington et al., 1993). It. . .

It has been proposed that ADHD+cognitive disorders was due to a dysregulation of NA metabolism of the LC involving adrenergic .alpha.2 receptors, and primarily affected the. . . YEAR) Since these brain areas are in proximity to auditory and linguistic processing regions, this could account for the comorbid cognitive disabilities. It would be a mistake to assume that these are pure forms since ADHD is a polygenic disorder (Comings. . . types. Studies in primates show that NA and defects in adrenergic .alpha.2 receptors also play a role in prefrontal lobe cognitive defects (Arnsten, 1997).

SUMM . . . creating or alleviating certain psychological traits. In humans, it has been suggested that meso-prefrontal dopaminergic activity is involved in human cognition (Weinberger et al., 1988). In patients with Parkinson's disease and possibly in patients with schizophrenia, prefrontal activation during a cognitive task and with clinical signs of dopaminergic function (Weinberger et al., 1988k). Brain chemical turnover in animals have demonstrated changes. .

SUMM . . . upper pons. Both acetylcholinergic (ACH) and dopaminergic systems (DA) have been found to be crucial for the maintenance of accurate cognitive performance. A series of studies, examining those aspects of cognitive function, revealed by the radial-arm maze, found that these two neurotransmitter systems interact in a complex fashion (Levin et al., . . the D.sub.2 antagonist raclopride, but not with the D.sub.1 antagonist SCH23390. The D.sub.2 receptor was indicated in nicotinic actions on cognitive function by the finding that the selective D.sub.2 agonist LY1771555 reverses the choice accuracy deficit caused by mecamylamine. The effectiveness of these selective DA treatments in reversing cognitive deficits was due to ACH under-activation (Levin et al., 1990k).

SUMM . . . suggests that serotonin may modulate cholinergic function in several regions of the mammalian brain and that these serotonergic/cholinergic interactions affect cognition. It is concluded that not all mnesic perturbations induced by concurrent manipulations of the serotonergic and cholinergic systems can be attributed to a serotonergic modification of the cholinergic system. The cognitive faculties of an organism arise from interactions among several neurotransmitters such as DA within brain structures such as, for instance, . . .

. . . of dopamine agonists on humans are still poorly understood. It has been hypothesized that bromocriptine would have an effect on cognitive functions associated with the prefrontal cortex via its effects on cortical dopamine receptors and on sub-cortical receptors

results demonstrate an empirical link between a dopamine-mediated working memory system and higher cognitive function in humans. It has been shown that the DRD2 A1 allele is also associated with visual-spacial memory deficits as. . . . was much more robust as one approached the six wk period of SUMM treatment. Dopamine D.sub.2 agonist bromocryptine can improve higher-level cognitive functions. . 25.000 Obesity, Focus DETD L-tyrosine 150.000 Gambling, Agitation, Anxiety, Nicotine, Cocaine, Obesity Ornithine aspartate 10.000 Obesity Kola nut (caffeine) 20.000 Obesity L-arginine 10.000 Obesity pyroglutamate Camomile\* 25.000 Nicotine Taurine\* 25.000 Agitation, Anxiety Valerian\* 10.000 Nicotine Willow bark extract\* 60.00 PMS symptoms Note:. . . DETD . . L-tyrosine 9 to 90,000 mg L-Glutamine 3 to 30,000 mg L-tryptophan 5 to 5,000 mg 5-Hydroxy-tryptophan 0.5 to 500 mg L-Arginine pyroglutamate 1 to 1000 mg Ornithine Aspartate 1 to 1000 mg D-leucine 16 to 5000 mg DL-leucine 32 to 10,000. report, known to the inventors, in humans of the effects of DETD daily ingestion of a specific amino acid mixture on cognitive event-related potentials (ERPs) associated with performance. Cognitive ERPs were generated by two computerized visual attention tasks, the Spatial Orientation Task(SOT) and Contingent Continuous Performance Task(CCPT), in normal. . . component of the ERPs was seen after the composition for both tasks (p<0.009), as well as improvement with respect to cognitive processing speeds (p<0.015). The enhancement of neurological function observed in this study on normal controls is consistent with the facilitation of recovery of individuals with RDS (i.e. substance. DETD . . . on the fact that attentional processing is governed by neurotransmitter function and certain specific neurotransmitters are responsible for normal brain cognitive functioning, which could be modulated by certain precursor amino acids. Understanding of electrophysiological functioning of the brain resides in the. One area of recent concern is the impaired cognition observed DETD in children of alcoholics (as measured by P300 waves), and the poor focusing of patients diagnosed with ADD/ADHD. In. DETD GABA, taken back into the presynaptic neuron after release and receptor interaction, is recycled as a potentially reusable transmitter. GABA is enzymatically metabolized in both the nerve. . . NAD and NADH as co-factors. The inventors' formulation for RDS takes this fact into account by adding pyridoxal-5-phosphate as a promoter of the oxidative-reductive pathway. . receptors has been reported. Certain mechanisms are accepted in DETD neuroscience related to the differential roles of various neurotransmitters in terms cognition. Cholinergic mechanisms underlie the fixation of memory trace. The noradrenergic system of the brain enhances positive reinforcement. The serotonergic mechanisms. by scopolamine significantly better than did E2020 or tacrine, DETD indicating it may be a promising agent for clinical therapy of

cognitive impairment in patients with Alzheimer's Disease (Cheng

et al., 1996).

in areas that. . . drug, while low- capacity subjects improved. These

Cognition, Electrophysiology and Neurotransmitter Function DETD . . sex, and stress may influence attentional processing. While a DETD number of neurotransmitter pathways are ultimately involved in focusing, memory and cognition in general at least four major pathways are preferred in this invention to be involved: serotonergic, opioidergic, GABAergic and dopaminergic. A brief review of the literature concerning cognition and neurotransrnitters will favor the positive relationship between the dopaminergic system and attentional processing. This relationship fosters the concept that. the first report of the effects of daily ingestion of a DETD specific amino acid mixture, Kantroll , in humans on cognitive event-related potentials (ERPs) associated with performance. Cognitive ERPs were generated by responses to two computerized visual attention tasks, the Spatial Orientation Task (SOT) and

Contingent Continuous Performance. . .

DETD . . . evaluate quantitative neurophysiological changes associated with the treatment with Kantroll.TM.. The electrophysiological portion focused on the P300 component of the cognitive event-related potential (ERP), evoked by two visual attention tasks. The advantage of this electrophysiological approach over more conventional EEG analyses.

. . family of components of the ERPs, each representing a stage of information processing. However, the ERP analysis here focused on cognitive ERPs, specifically on the P300 component. Quantitative ERP changes have recently been shown to vary predictably over a range of. .

DETD . . . performance correlates of chronic Kantroll administration on normal subjects, especially as indexed by changes in the P300 component of the cognitive ERP.

DETD . . . respective A' (a standard signal detection parameter) values.

This paradigm samples the orientation to stimuli, fluidity of attention, along with cognitive processing speeds.

DETD The various components of the **cognitive** ERPs associated with the Contingent Continuous Performance Task (CCPT) have many similarities to those generated by other continuous performance tasks,. . .

DETD . . . cocaine abuse is altered attentional processing (Robledo et al., 1993). Moreover, human attentional processing and the P300 component of the cognitive ERP are often linked (e.g., Hillyard et al., 1973). At this point, then, is worthwhile to revisit the neurology of. . . it provides the context for the importance of the findings. As widely known, the P300 is one of several endogenous cognitive ERPs components, whose latency, morphology, and spatial distribution are highly dependent upon the psychological context in which the stimulus is. . .

DETD As the characteristics of any cognitive ERP are very much anchored to the eliciting behavioral paradigm, it is important to keep in mind that the performance. . . then, the P300 behaves as a modality-independent byproduct of the selective attention process--a necessary foundation to subsequent emotional, memory, and cognitive processing. These performance probes, then, challenge the functionality of pathways along the frontal-temporal axis. It is precisely these forebrain regions. .

DETD . . . The status of ADD as a disorder would be more assured if there were a unique pattern of attentional or **cognitive** correlates which discriminated ADD from other disorders (McGee, et. al., 1989).

DETD Many of the behavioral and **cognitive** disorders including ADHD, CD, ODD, antisocial personality disorder, dyslexia and other teaming disorders, and autism, are three to five times. . .

DETD TABLE 79

ADHD With and Without Cognitive Disabilities (CD)
ADHD without CD

absent present

Verbal IQ normal low

Brain region involved prefrontal lobes parietal/temporal lobes Brain nucleus involved ventral tegmental area. . .

- DETD . . . or the dopamine .beta.-hydroxylase genes are associated with ADHD per se, and if there is a preferential association with the ADHD+ cognitive disorders subtype. The inventors utilized the MspI polymorphism in the promoter region of the ADRA2A gene (Lario et al., 1997), . . .
- DETD Discussion. The identification of two subtypes of ADHD, one with and one without cognitive defects, that involve distinct regions of the brain, distinct neurotransmitters, and distinct sets of genes (Table 80), could have considerable. . .
- DETD . . . 83, the defects in NA metabolism and variant NA genes are more likely to be involved in ADHD children with **cognitive** defects than ADHD children without **cognitive** defects.
- DETD . . . the concept that NA genes are preferentially involved in ADHD+LD individuals, while dopamine genes are equally involved in ADHD whether cognitive defects are present or not.
- DETD . . . inventors believe that the assessments for the LD score in this manner represents a robust test for the presence of cognitive disabilities. Ironically, the assessment of whether a child performed below average in two or more academic subjects (math, reading, writing).

  . . score than having been in an LD class. This indicates that actual classroom performance can provide a reliable estimate of cognitive abilities, and that many children who are doing poorly academically, are never placed into special classes.
- DETD . . . included under the category of "depressive disorders not otherwise specified" in the DSM-IV. However, a number of factors (biological and cognitive studies, treatment responses) differentiate PMDD from other mood disorders (Yonkers, 1997).
- DETD Arnsten, Steere, Hunt, "The contribution of a.sub.2 -noradrenergic mechanism to prefrontal cortical cognitive function. Potential significance for Attention-Deficit Hyperactivity Disorder," Arch. Gen. Psychiatry, 53:448-455, 1996.
- DETD August and Garfinkel, "Behavioral and Cognitive Subtypes of AD-HD," J. Am. Acad. Child Adoles. Psychiatry, 28(5):739-748, 1989.
- DETD Biederman, Faraone, Spencer, Wilens, Norman, Lapey, Mick, Lehman, Doyle, "Patterns of psychiatric comorbidity, cognition, and psychosocial functioning in adults with attention deficit hyperactivity disorder," Am. J. Psychiatry, 150:1792-1798, 1993.
- DETD Cassel et al., "Serotonergic modulation of cholinergic function in the central nervous system: **cognitive** implications," Neurosci, 69:1-41, 1995.
- DETD DeFrance, Schweitzer, Sands, Ginsberg, Sharma, "Age-Related Changes of Cognitive ERPs in Attention, 1995.
- DETD Goldman-Rakic, "Topolography of cognition: Parallel distributed networks in primate association cortex," Annu. Rev. Neurosci., 11:137-156, 1988.
- DETD Halgren and Smith, "Cognitive evoked potentials as modulatory processes in human memory formation and retrieval," Human Neurobiology, 6:129-139, 1987.
- DETD Levin et al., "Cholinergic-dopaminergic interactions in cognitive performance," Behavioal Neural. Biology, 54:271-299, 1990.
- DETD Lu, Shou, Tang, "Improving effect of Huperzine A on discrimination performance in aged rats and adult rats with experimental cognitive impairment," Chung Kuo Yao Li Hsueh Pao, 9:11-15 (article in Chinese), 1988.
- DETD Pennington, Groisser, Welsh, "Contrasting cognitive deficits in attention deficit hyperactivity disorder versus reading disability," Dev. Psychol., 29:511-523, 1993.
- DETD . . . Fattapposta, Tagliati, D'Alessio, Marciani, Foti, Amabile,

"Dopamergic pharmacological manipulations in normal humans confiirm the specificity of the visual (PERG-VEP) and cognitive (P300) electrophysiological alternations in Parkinson's Disease," Electroencephalography and Clinical Neurophysiology, 44:447-448, 1990.

DETD Warburton, "Nicotine as a cognitive enhancer," Prog. Neuropsychopharmacol. Biol. Psychiatry, 16:181-191, 1992.

DETD Weinberger et al., "Mescocortical dopaminergic function and human cognition," Annals New York Acad. Sci., 537:330-338, 1988.

DETD Xu, Gao, Weng, Du, Xu, Yang, Zhang, Tong, Fang, Chai et al., "Efficacy of tablet huperzine-A on memory, cognition, and behavior in Alzheimer's disease," Chung Kuo Yao Li Hsueh Pao, 16(5):391-395, 1995

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L20 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2003 ACS
RN
     7200-25-1 REGISTRY
     Arginine (9CI) (CA INDEX NAME)
CN
OTHER CA INDEX NAMES:
     Arginine, DL- (8CI)
CN
     DL-Arginine
CN
OTHER NAMES:
     (.+-.)-Arginine
CN
     3D CONCORD
FS
     C6 H14 N4 O2
MF
CI
     COM
                  ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS,
LC
     STN Files:
       CA, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CIN, CSCHEM, DETHERM*,
       DIOGENES, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE,
       NAPRALERT, PHARMASEARCH, PIRA, PROMT, TOXCENTER, TULSA, USPATFULL
         (*File contains numerically searchable property data)
                      EINECS**, NDSL**, TSCA**
     Other Sources:
         (**Enter CHEMLIST File for up-to-date regulatory information)
                     NH
     NH<sub>2</sub>
HO_2C-CH-(CH_2)_3-NH-C-NH_2
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
             293 REFERENCES IN FILE CA (1957 TO DATE)
              15 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
             293 REFERENCES IN FILE CAPLUS (1957 TO DATE)
L20 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2003 ACS
RN
     74-79-3 REGISTRY
     L-Arginine (9CI)
                       (CA INDEX NAME)
OTHER CA INDEX NAMES:
     Arginine, L- (8CI)
OTHER NAMES:
     (S)-2-Amino-5-[(aminoiminomethyl)amino]pentanoic acid
CN
CN
     Arginine
CN
     L-(+)-Arginine
CN
     L-.alpha.-Amino-.delta.-guanidinovaleric acid
CN
     L-Norvaline, 5-[(aminoiminomethyl)amino]-
CN
     L-Ornithine, N5-(aminoiminomethyl)-
CN
CN
     Pentanoic acid, 2-amino-5-[(aminoiminomethyl)amino]-, (S)-
FS
     STEREOSEARCH
     7004-12-8, 142-49-4
DR
MF
     C6 H14 N4 O2
CI
     COM
                  ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS,
LC
     STN Files:
       BIOSIS, BIOTECHNO, CA, CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
       CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU,
       DETHERM*, DIOGENES, DRUGU, EMBASE, GMELIN*, HODOC*, HSDB*, IFICDB,
       IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, MSDS-OHS, NAPRALERT, NIOSHTIC,
       PHAR, PHARMASEARCH, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER,
       TULSA, USAN, USPAT2, USPATFULL, VETU
         (*File contains numerically searchable property data)
     Other Sources: DSL**, EINECS**, TSCA**, WHO
         (**Enter CHEMLIST File for up-to-date regulatory information)
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Absolute stereochemistry.